Q1:

SET SERVEROUTPUT ON

SET AUTOPRINT ON

SET VERIFY OFF

CREATE OR REPLACE FUNCTION Get\_Descr(

v\_sectionID IN SECTION.SECTION\_ID%TYPE

)

RETURN VARCHAR2

IS

v\_desc COURSE.DESCRIPTION%TYPE;

BEGIN

Select c.description into v\_desc from course c

join section s

on c.course\_no = s.course\_no

where s.section\_id = v\_sectionID;

RETURN 'Course Description for Section Id ' || v\_sectionID || ' is ' || v\_desc;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RETURN 'There is NO such Section id: ' || v\_sectionID;

END Get\_Descr;

/

VARIABLE BINDDESC varchar2(100)

EXECUTE :BINDDESC := Get\_Descr('150');

EXECUTE :BINDDESC := Get\_Descr('999');

BINDDESC

------------------------------------------------------------------

Course Description for Section Id 150 is Intro to Java Programming

PL/SQL procedure successfully completed.

BINDDESC

--------------------------------

There is NO such Section id: 999

Q2:

SET SERVEROUTPUT ON

SET AUTOPRINT ON

SET VERIFY OFF

SET SERVEROUTPUT ON

CREATE OR REPLACE PROCEDURE show\_bizdays(

v\_startDate DATE := SYSDATE,

v\_days NUMBER := 21

)

IS

v\_indx NUMBER := 1;

v\_day NUMBER := 1;

BEGIN

WHILE TRUE LOOP

IF v\_indx <= v\_days THEN

IF TO\_CHAR(v\_startDate+v\_day, 'd') IN ('6', '7') THEN

v\_day := v\_day + 1;

ELSE

DBMS\_OUTPUT.PUT\_LINE('The index is : ' || v\_indx || ' ad the table value is: ' || TO\_CHAR(v\_startDate+v\_day));

v\_indx := v\_indx + 1;

v\_day := v\_day + 1;

END IF;

ELSE

EXIT;

END IF;

END LOOP;

END show\_bizdays;

/

EXECUTE show\_bizdays;

EXECUTE show\_bizdays(sysdate+7,10);

Procedure SHOW\_BIZDAYS compiled

The index is : 1 ad the table value is: 24-JUN-21

The index is : 2 ad the table value is: 27-JUN-21

The index is : 3 ad the table value is: 28-JUN-21

The index is : 4 ad the table value is: 29-JUN-21

The index is : 5 ad the table value is: 30-JUN-21

The index is : 6 ad the table value is: 01-JUL-21

The index is : 7 ad the table value is: 04-JUL-21

The index is : 8 ad the table value is: 05-JUL-21

The index is : 9 ad the table value is: 06-JUL-21

The index is : 10 ad the table value is: 07-JUL-21

The index is : 11 ad the table value is: 08-JUL-21

The index is : 12 ad the table value is: 11-JUL-21

The index is : 13 ad the table value is: 12-JUL-21

The index is : 14 ad the table value is: 13-JUL-21

The index is : 15 ad the table value is: 14-JUL-21

The index is : 16 ad the table value is: 15-JUL-21

The index is : 17 ad the table value is: 18-JUL-21

The index is : 18 ad the table value is: 19-JUL-21

The index is : 19 ad the table value is: 20-JUL-21

The index is : 20 ad the table value is: 21-JUL-21

The index is : 21 ad the table value is: 22-JUL-21

PL/SQL procedure successfully completed.

The index is : 1 ad the table value is: 01-JUL-21

The index is : 2 ad the table value is: 04-JUL-21

The index is : 3 ad the table value is: 05-JUL-21

The index is : 4 ad the table value is: 06-JUL-21

The index is : 5 ad the table value is: 07-JUL-21

The index is : 6 ad the table value is: 08-JUL-21

The index is : 7 ad the table value is: 11-JUL-21

The index is : 8 ad the table value is: 12-JUL-21

The index is : 9 ad the table value is: 13-JUL-21

The index is : 10 ad the table value is: 14-JUL-21

PL/SQL procedure successfully completed.

SET SERVEROUTPUT ON

SET AUTOPRINT ON

SET VERIFY OFF

-- 3a

CREATE OR REPLACE PACKAGE Lab5

IS

PROCEDURE show\_bizdays(v\_startDate DATE := sysdate, v\_days NUMBER :=21);

FUNCTION Get\_Descr(v\_sectionID Section.section\_id%TYPE)

RETURN VARCHAR2;

END Lab5;

/

-- 3b

CREATE OR REPLACE PACKAGE BODY Lab5

IS

PROCEDURE show\_bizdays(

v\_startDate DATE := SYSDATE,

v\_days NUMBER := 21

)

IS

v\_indx NUMBER := 1;

v\_day NUMBER := 1;

BEGIN

WHILE TRUE LOOP

IF v\_indx <= v\_days THEN

IF TO\_CHAR(v\_startDate+v\_day, 'd') IN ('6', '7') THEN

v\_day := v\_day + 1;

ELSE

DBMS\_OUTPUT.PUT\_LINE('The index is : ' || v\_indx || ' ad the table value is: ' || TO\_CHAR(v\_startDate+v\_day));

v\_indx := v\_indx + 1;

v\_day := v\_day + 1;

END IF;

ELSE

EXIT;

END IF;

END LOOP;

END show\_bizdays;

FUNCTION Get\_Descr(

v\_sectionID IN SECTION.SECTION\_ID%TYPE

)

RETURN VARCHAR2

IS

v\_desc COURSE.DESCRIPTION%TYPE;

BEGIN

Select c.description into v\_desc from course c

join section s

on c.course\_no = s.course\_no

where s.section\_id = v\_sectionID;

RETURN 'Course Description for Section Id ' || v\_sectionID || ' is ' || v\_desc;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

RETURN 'There is NO such Section id: ' || v\_sectionID;

END Get\_Descr;

END Lab5;

/

-- 3c

Execute Lab5.show\_bizdays;

Execute Lab5.show\_bizdays(sysdate+7, 10);

Package LAB5 compiled

Package Body LAB5 compiled

The index is : 1 ad the table value is: 24-JUN-21

The index is : 2 ad the table value is: 27-JUN-21

The index is : 3 ad the table value is: 28-JUN-21

The index is : 4 ad the table value is: 29-JUN-21

The index is : 5 ad the table value is: 30-JUN-21

The index is : 6 ad the table value is: 01-JUL-21

The index is : 7 ad the table value is: 04-JUL-21

The index is : 8 ad the table value is: 05-JUL-21

The index is : 9 ad the table value is: 06-JUL-21

The index is : 10 ad the table value is: 07-JUL-21

The index is : 11 ad the table value is: 08-JUL-21

The index is : 12 ad the table value is: 11-JUL-21

The index is : 13 ad the table value is: 12-JUL-21

The index is : 14 ad the table value is: 13-JUL-21

The index is : 15 ad the table value is: 14-JUL-21

The index is : 16 ad the table value is: 15-JUL-21

The index is : 17 ad the table value is: 18-JUL-21

The index is : 18 ad the table value is: 19-JUL-21

The index is : 19 ad the table value is: 20-JUL-21

The index is : 20 ad the table value is: 21-JUL-21

The index is : 21 ad the table value is: 22-JUL-21

PL/SQL procedure successfully completed.

The index is : 1 ad the table value is: 01-JUL-21

The index is : 2 ad the table value is: 04-JUL-21

The index is : 3 ad the table value is: 05-JUL-21

The index is : 4 ad the table value is: 06-JUL-21

The index is : 5 ad the table value is: 07-JUL-21

The index is : 6 ad the table value is: 08-JUL-21

The index is : 7 ad the table value is: 11-JUL-21

The index is : 8 ad the table value is: 12-JUL-21

The index is : 9 ad the table value is: 13-JUL-21

The index is : 10 ad the table value is: 14-JUL-21

PL/SQL procedure successfully completed.

SET SERVEROUTPUT ON

SET AUTOPRINT ON

SET VERIFY OFF

CREATE OR REPLACE PACKAGE lab5

IS

PROCEDURE show\_bizdays (v\_startDate DATE , v\_days NUMBER);

PROCEDURE show\_bizdays (v\_startDate DATE:=sysdate);

END lab5;

/

CREATE OR REPLACE PACKAGE BODY lab5

IS

PROCEDURE show\_bizdays(

v\_startdate DATE ,

v\_days NUMBER

)

IS

v\_indx NUMBER := 1;

v\_day NUMBER := 1;

BEGIN

WHILE TRUE LOOP

IF v\_indx <= v\_days THEN

IF to\_char(v\_startdate+v\_day, 'd') IN ('6', '7') THEN

v\_day := v\_day + 1;

ELSE

dbms\_output.put\_line('The index is : ' || v\_indx || ' ad the table value is: ' || to\_char(v\_startdate+v\_day));

v\_indx := v\_indx + 1;

v\_day := v\_day + 1;

END IF;

ELSE

EXIT;

END IF;

END LOOP;

END show\_bizdays;

PROCEDURE show\_bizdays(

v\_startdate DATE:=sysdate

)

IS

v\_days NUMBER;

v\_indx NUMBER := 1;

v\_day NUMBER := 1;

BEGIN

v\_days := &x;

WHILE TRUE LOOP

IF v\_indx <= v\_days THEN

IF to\_char(v\_startdate+v\_day, 'd') IN ('6', '7') THEN

v\_day := v\_day + 1;

ELSE

dbms\_output.put\_line('The index is : ' || v\_indx || ' ad the table value is: ' || to\_char(v\_startdate+v\_day));

v\_indx := v\_indx + 1;

v\_day := v\_day + 1;

END IF;

ELSE

EXIT;

END IF;

END LOOP;

END show\_bizdays;

END lab5;

/

EXECUTE lab5.show\_bizdays(sysdate+7, 21);

EXECUTE lab5.show\_bizdays(sysdate);

I couldn’t find out how to accept input at runtime or it would break the program so, this program will ask for the user input ‘the one argument call’ during body compilation, also in order to make the one argument overloaded function work I had to change the functions specification I would fix it but the I have the assignment to worry about.

Package LAB5 compiled

Package Body LAB5 compiled

The index is : 1 ad the table value is: 01-JUL-21

The index is : 2 ad the table value is: 04-JUL-21

The index is : 3 ad the table value is: 05-JUL-21

The index is : 4 ad the table value is: 06-JUL-21

The index is : 5 ad the table value is: 07-JUL-21

The index is : 6 ad the table value is: 08-JUL-21

The index is : 7 ad the table value is: 11-JUL-21

The index is : 8 ad the table value is: 12-JUL-21

The index is : 9 ad the table value is: 13-JUL-21

The index is : 10 ad the table value is: 14-JUL-21

The index is : 11 ad the table value is: 15-JUL-21

The index is : 12 ad the table value is: 18-JUL-21

The index is : 13 ad the table value is: 19-JUL-21

The index is : 14 ad the table value is: 20-JUL-21

The index is : 15 ad the table value is: 21-JUL-21

The index is : 16 ad the table value is: 22-JUL-21

The index is : 17 ad the table value is: 25-JUL-21

The index is : 18 ad the table value is: 26-JUL-21

The index is : 19 ad the table value is: 27-JUL-21

The index is : 20 ad the table value is: 28-JUL-21

The index is : 21 ad the table value is: 29-JUL-21

PL/SQL procedure successfully completed.

The index is : 1 ad the table value is: 24-JUN-21

The index is : 2 ad the table value is: 27-JUN-21

The index is : 3 ad the table value is: 28-JUN-21

The index is : 4 ad the table value is: 29-JUN-21

The index is : 5 ad the table value is: 30-JUN-21

The index is : 6 ad the table value is: 01-JUL-21

The index is : 7 ad the table value is: 04-JUL-21

The index is : 8 ad the table value is: 05-JUL-21

The index is : 9 ad the table value is: 06-JUL-21

The index is : 10 ad the table value is: 07-JUL-21

Entered number was 10

PL/SQL procedure successfully completed.